

ORO LOMA ECOTONE PROJECT

Ecosystem Adaptation,
Flood Risk Management and
Wastewater Effluent Polishing

California Climate Action Planning Conference
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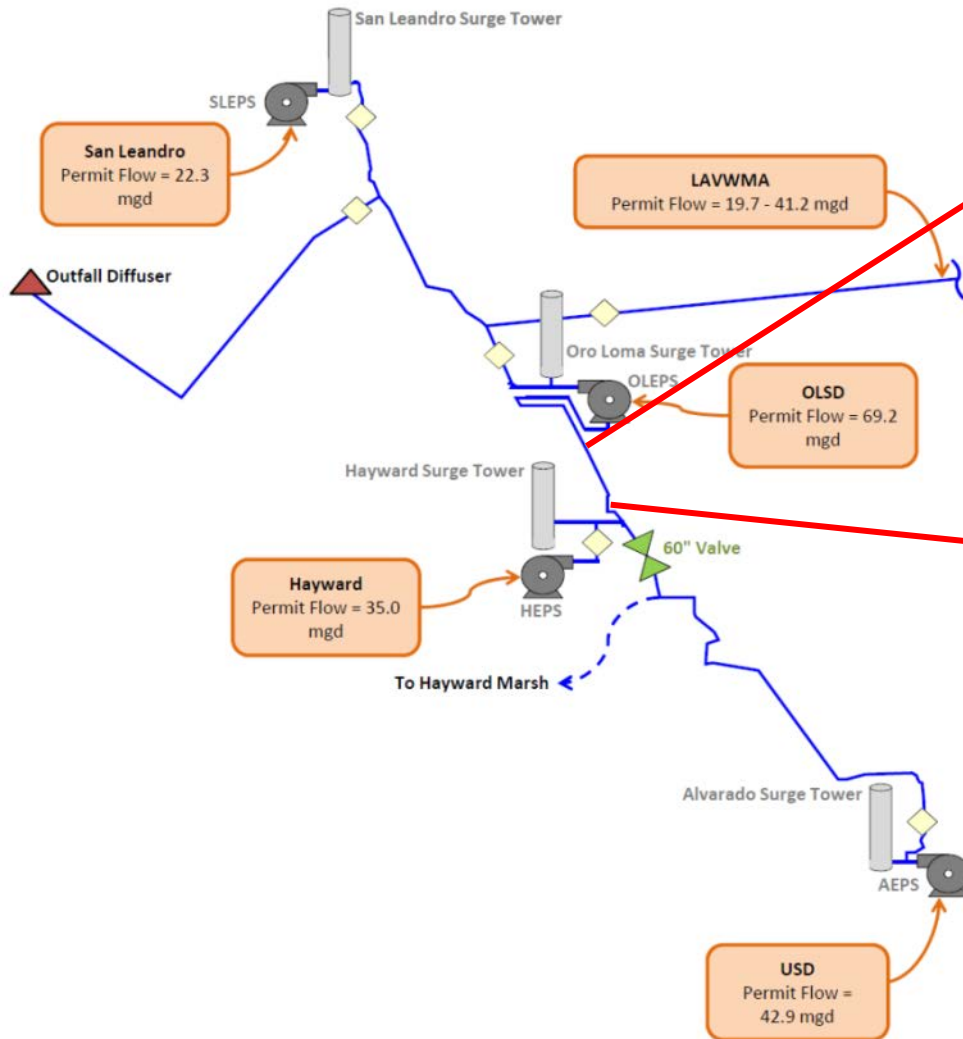




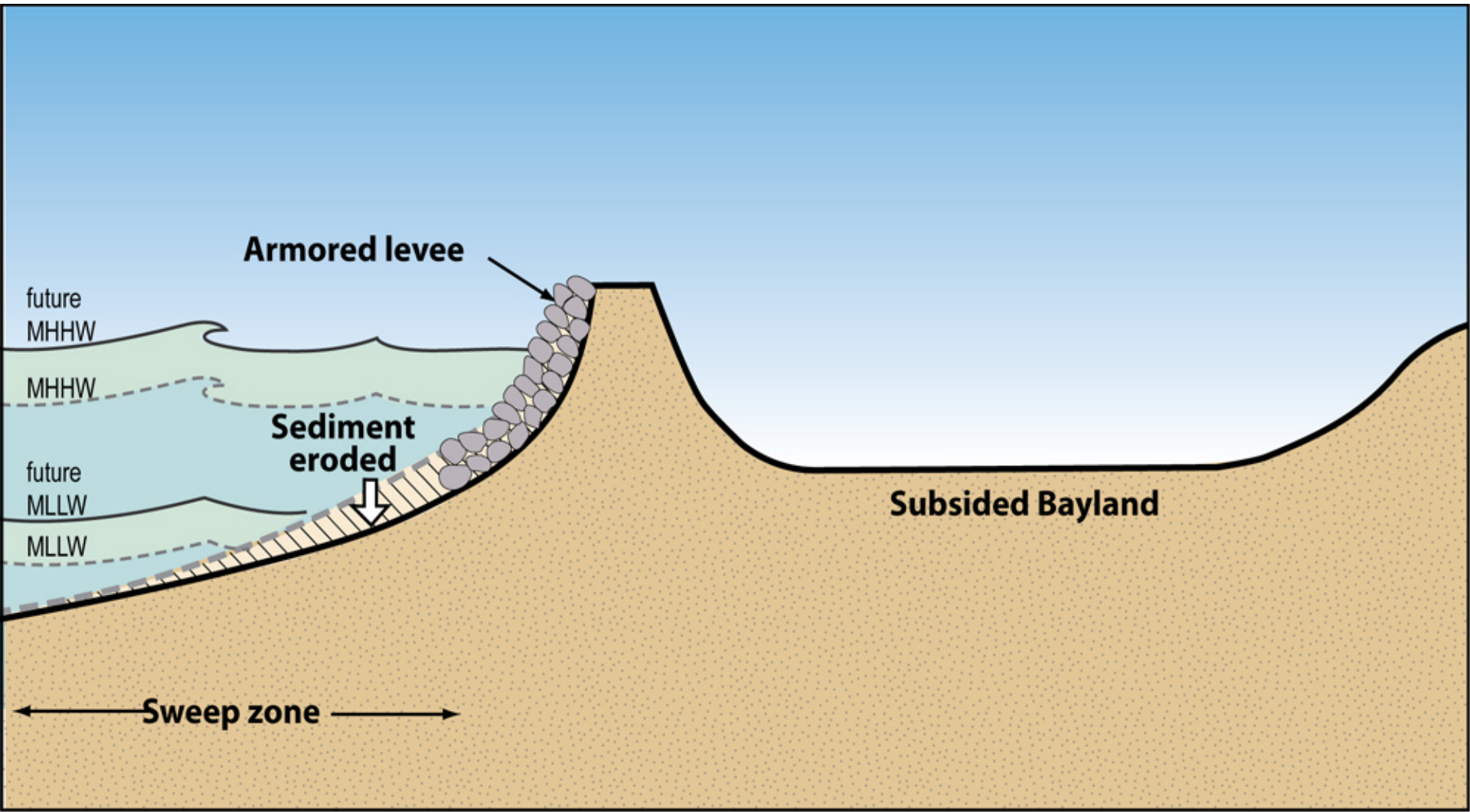


Photo: Mark Taylor

Challenges

- Aging outfall infrastructure
- Nutrient removal requirements
- Loss of habitat for endangered species
- Sea level rise and extreme water levels
- Greater constraints on public resources
- Existing regulatory framework

Hold the Line

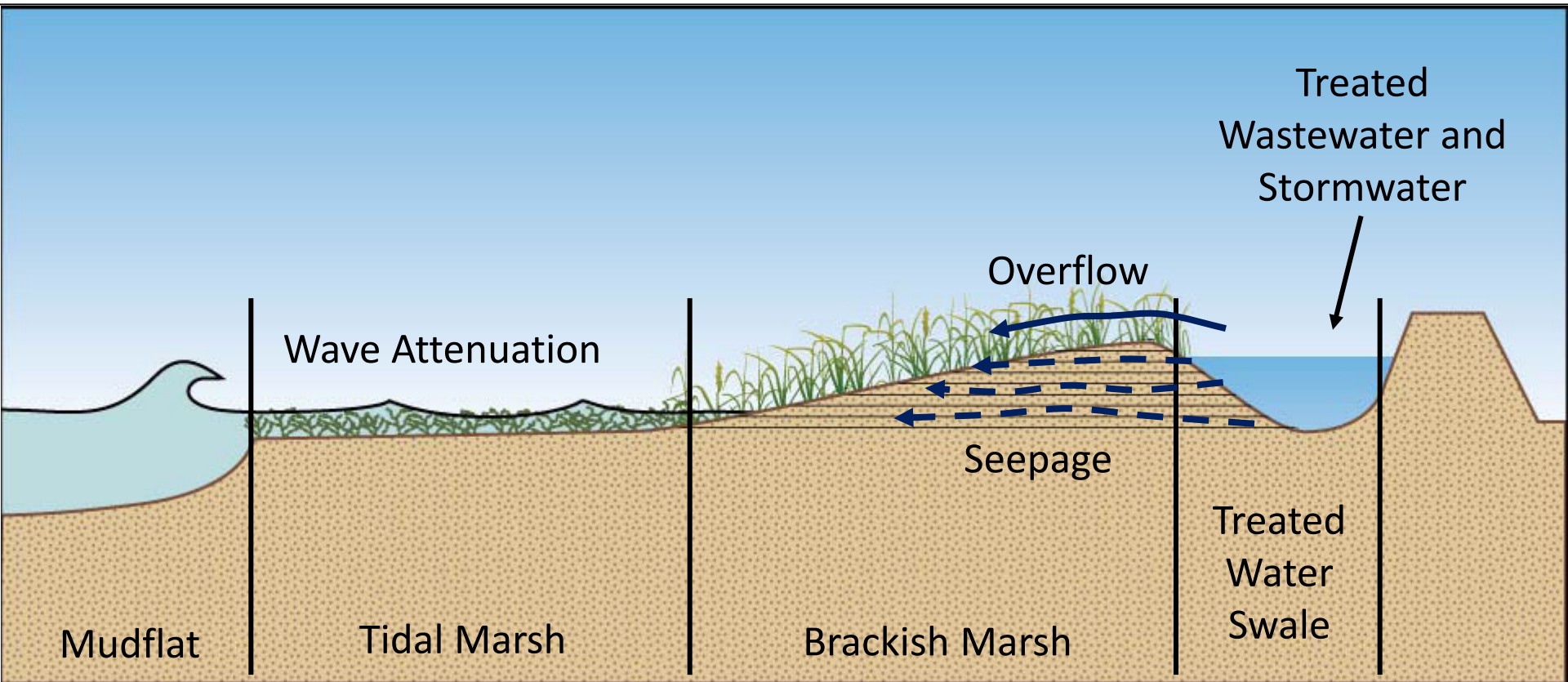


Opportunities

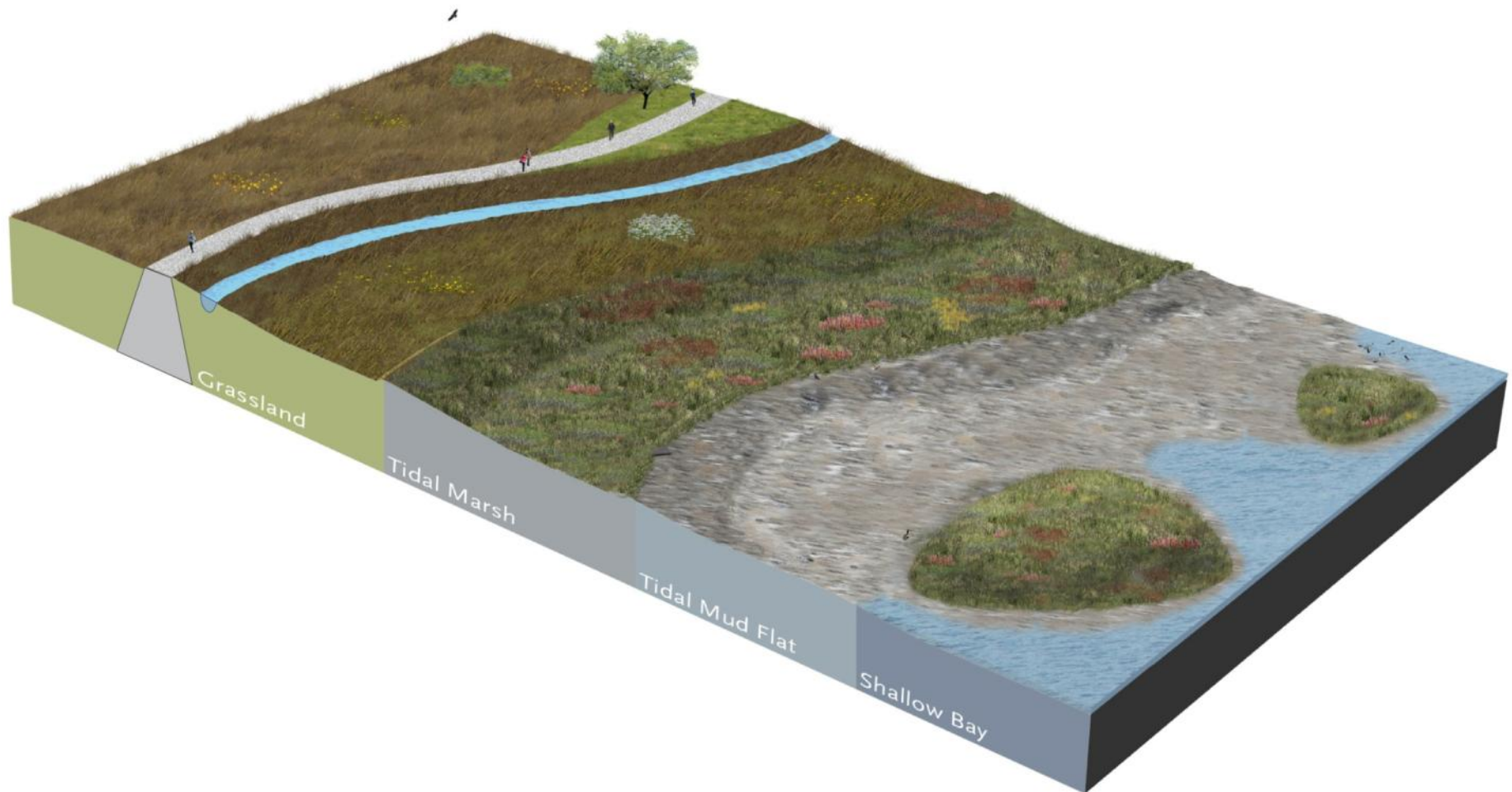


Ecotone Slope

- to create historic transitional habitat;
- to attenuate waves to reduce flood risk;
- to polish discharge by subsurface seepage.



A Future Shoreline?

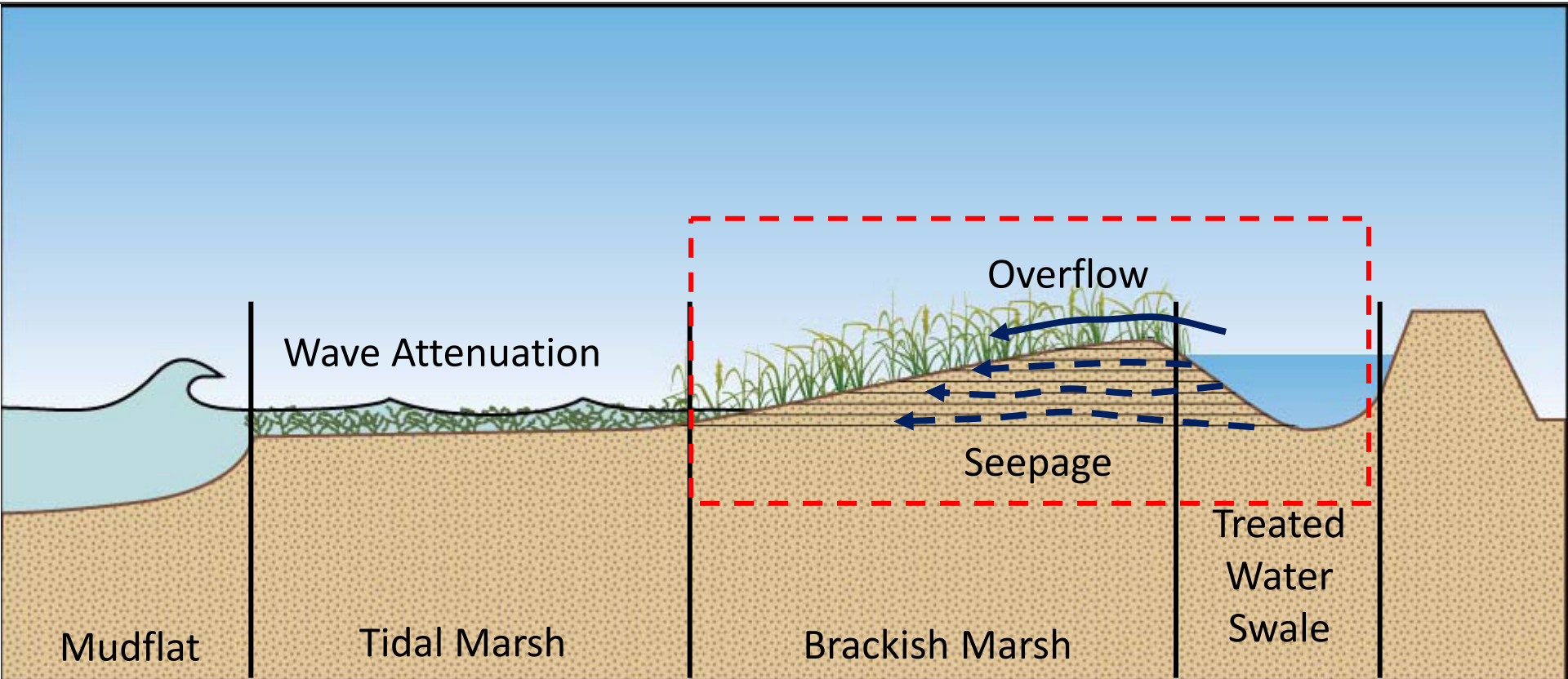


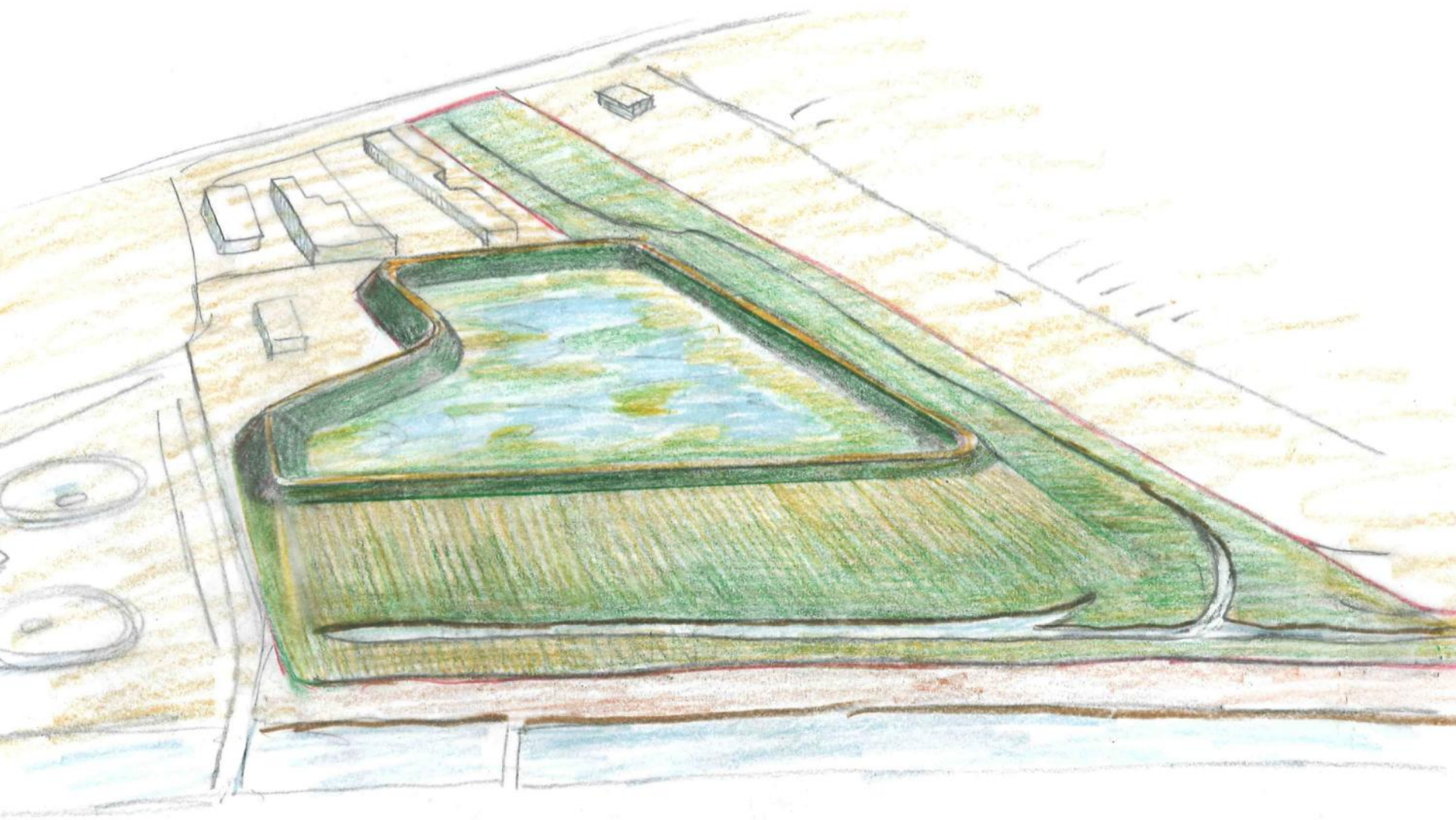
Co-benefits

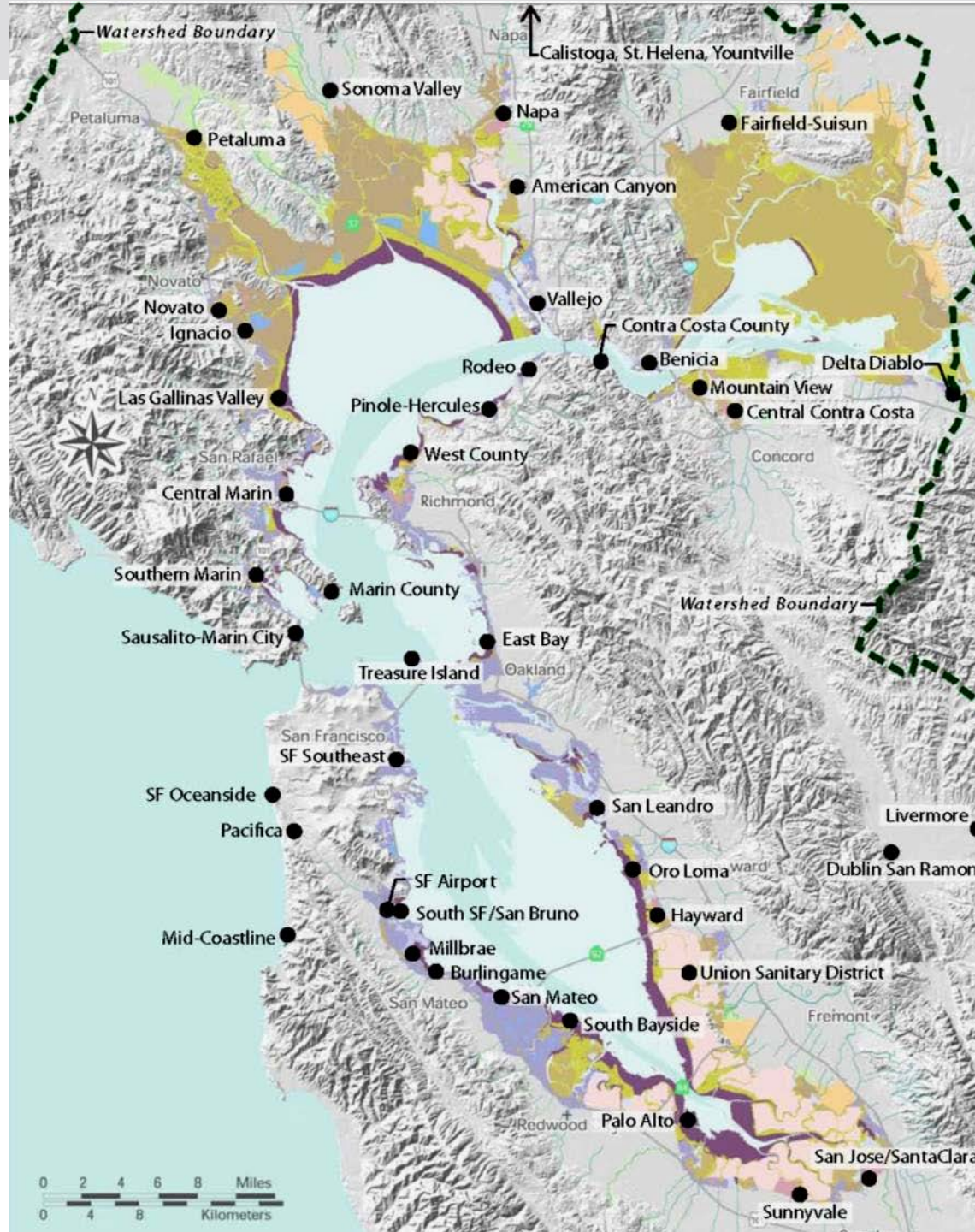
- Wastewater
 - Wet weather equalization
 - Denitrification
- Ecological
 - Creates historic ecotone
 - High tide refugia
 - Allows transgression of marshes
- Flood Risk Management
 - Increases wave attenuation
 - Reduction in levee size and maintenance
 - Removal of infrastructure from hazard zone

Pilot Project

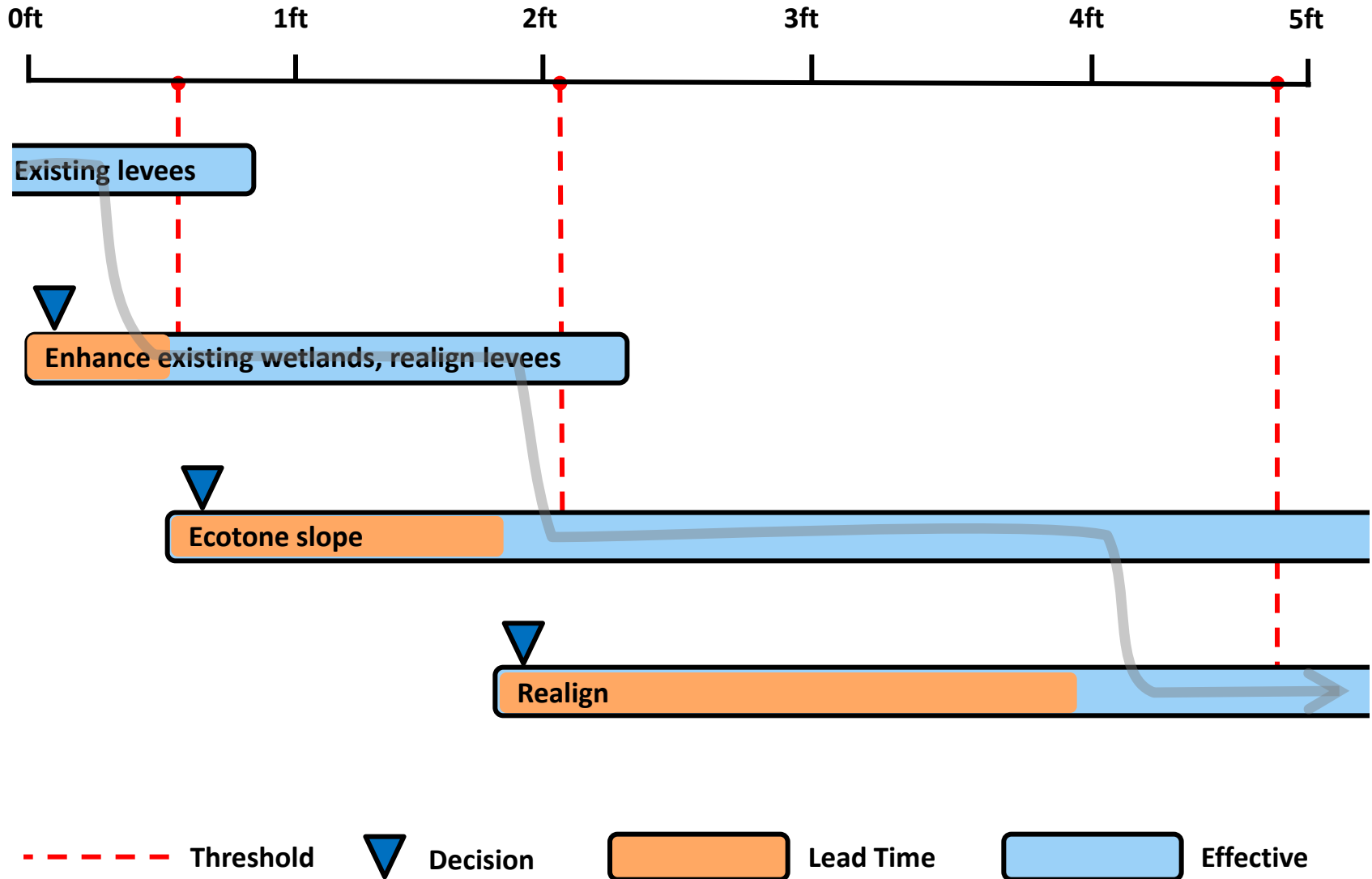
- to refine design;
- to further regulatory dialogue.







An Adaptation Strategy?



Not an Adaptation Strategy! – Start Now



Photo: Peter Baye

Questions?

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